What is Claimed:

1. In wireless communication system, the communication system providing communication services to a plurality of mobile stations, a method for providing phase-shift transmit diversity, the method comprising:

phase-shift modulating a first signal with a first control signal to produce a first phase-shift modulated signal including a first phase shift;

phase-shift modulating a second signal with a second control signal to produce a second phase-shift modulated signal including a second phase shift, the second phase shift being distinct from the first phase shift such that the second phase-shift modulated signal is diverse relative to the first phase-shift modulated signal;

transmitting the first phase-shift modulated signal via a first antenna; and

transmitting the second phase-shift modulated signal via a second antenna,

wherein the first control signal is synchronized with the second control signal.

2. The method of claim 1, wherein the step of phase-shift modulating a first signal with a first control signal to produce a first phase-shift modulated signal including a first phase shift comprises phase-shift modulating a first signal with a first control signal to produce a first phase-shift modulated signal including a first constant phase shift and a first time-variable phase shift of 180 peak deviation operable in a phase direction.

3. The method of claim 1, wherein the step of phase-shift modulating a first signal with a first control signal to produce a first phase-shift modulated signal including a first phase shift comprises phase-shift modulating a first signal with a first control signal to produce a first phase-shift modulated signal including a first constant phase shift and a first time-variable phase shift of 180 peak deviation operable in an ascending phase direction.

4. The method of claim 1, wherein the step of phase-shift modulating a second signal with a second control signal to produce a second phase-shift modulated signal including a second phase shift comprises phase-shift modulating a second signal with a second control signal to produce a second phase-shift modulated signal including a second constant phase shift and a second time-variable phase shift of 180 peak deviation operable in a phase direction.

5. The method of claim 1, wherein the step of phase-shift modulating a second signal with a second control signal to produce a second phase-shift modulated signal including a second phase shift comprises phase-shift modulating a second signal with a second control signal to produce a second phase-shift modulated signal including a second constant phase shift and a second time-variable phase shift of 180 peak deviation operable in a descending phase direction.

6. The method of claim 1, wherein the step of transmitting the first signal via a first antenna comprises transmitting the first phase-shift modulated signal via a main antenna.

7. The method of claim 1, wherein the step of transmitting the second signal via a second antenna comprises transmitting the second phase-shift modulated signal via a diversity antenna.

8. The method of claim 1 further comprising the steps of:

combining a first input signal and a second input signal to produce a composite signal; and

generating the first signal and the second signal based on the composite signal,

wherein the first signal is based on a first carrier and the second signal is based on a second carrier.

9. The method of claim 1, wherein the communication system operates in accordance with a code division multiple access (CDMA) based communication protocol.

10. In a wireless communication system, the communication system providing communication services to a plurality of mobile stations, an apparatus for providing phase-shift transmit diversity, the apparatus comprising:

a first signal path operable to provide a first signal;

a second signal path operable to provide a second signal;

a phase-shift controller adapted to provide a first control signal and a second control signal, the first control signal being synchronized with the second control signal;

a first phase-shift element coupled to the first signal path and the phase-shift controller, the first phase-shift element being operable to generate a first phase-shift modulated signal including a first phase shift based on the first signal and the first control signal;

a second phase-shift element coupled to the second signal path and the phase-shift controller, the second phase-shift element being operable to generate a second signal including a second phase shift based on the second signal and the second control signal;

a first antenna coupled to the first phase-shift element, the first antenna being operable to transmit the first phase-shift modulated signal; and

a second antenna coupled to the second phase-shift element, the second antenna being operable to transmit the second phase-shift modulated signal,

wherein the second phase shift being distinct from the first phase shift such that the second phase-shift modulated signal is diverse relative to the first phase-shift modulated signal.

11. The base station of claim 10, wherein the first phase shift comprises a first constant phase shift and a first time-variable phase shift of 180 peak deviation operable in a phase direction.

12. The base station of claim 10, wherein the first phase shift comprises a first constant phase shift and a first time-variable phase shift of 180 peak deviation operable in an ascending phase direction.

13. The base station of claim 10, wherein the first phase shift comprises a first constant phase shift and a first time-variable phase shift from 0 to 180 operable in an ascending phase direction.

14. The base station of claim 10, wherein the second phase shift comprises a second constant phase shift and a second time-variable phase shift of 180 peak deviation operable in a phase direction.

15. The base station of claim 10, wherein the second phase shift comprises a second constant phase shift and a second time-variable phase shift of 180 peak deviation operable in a descending phase direction.

16. The base station of claim 10, wherein each of the first and second phase-shift elements comprises a phase-shift element operable to provide a phase shift of 180 peak deviation.

17. The base station of claim 10, wherein each of the first and second phase-shift elements comprises a ferrite phase-shift circuit.

18. The base station of claim 10, wherein each of the first and second phase-shift elements comprises one of an open loop linearization and compensation circuit and a closed loop linearization and compensation circuit.

19. The base station of claim 10, wherein the first antenna comprises a main antenna.

20. The base station of claim 10, wherein the second antenna comprises a diversity antenna.

21. The base station of claim 10, wherein the phase controller comprises a phase controller adapted to provide a first control signal and a second control signal based on one of a reference signal of 19.6 Megahertz (MHz), a reference signal of an integer multiple of 1.2288 MHz, and a reference signal of an integer multiple of 50 Hz.

22. The base station of claim 10, wherein the phase controller comprises a four-port hybrid combination element, wherein the four-port hybrid combination element is operable to provide carrier combination.

23. The base station of claim 10, wherein the base station operates in accordance with a code division multiple access (CDMA) based communication protocol.

24. In a wireless communication system, the communication system for providing communication service for a plurality of mobile stations, wherein a processor operates in accordance with a computer program embodied on a computer-readable medium for providing transmit diversity, the computer program comprising:

a first routine that directs the processor to phase-shift modulate a first signal with a first control signal to produce a first phase-shift modulated signal including a first phase shift;

a second routine that directs the processor to phase-shift modulate a second signal with a second control signal to produce a second phase-shift modulated signal including a second phase shift, the second phase shift being distinct from the first phase shift such that the second phase-shift modulated signal is diverse relative to the first phase-shift modulated signal;

a third routine that directs the processor to transmit the first phase-shift modulated signal via a first antenna; and

a fourth routine that directs the processor to transmit the second phase-shift modulated signal via a second antenna,

wherein the first control signal is synchronized with the second control signal.

25. The computer program of claim 24, wherein the first routine comprises a routine that directs the processor to phase-shift modulate a first signal with a first control signal to produce a first phase-shift modulated signal including a first constant phase shift and a first time-variable phase shift of 180 peak deviation operable in a phase direction.

27. The computer program of claim 24, wherein the first routine comprises a routine that directs the processor to phase-shift modulate a first signal with a first control signal to produce a first phase-shift modulated signal including a first constant phase shift and a first time-variable phase shift of 180 peak deviation operable in an ascending phase direction.

28. The computer program of claim 24, wherein the second routine comprises a routine that directs the processor to phase-shift modulate a second signal with a second control signal to produce a second phase-shift modulated signal including a second constant phase shift and a second time-variable phase shift of 180 peak deviation operable in a phase direction.

29. The computer program of claim 24, wherein the second routine comprises a routine that directs the processor to phase-shift modulate a second signal with a second control signal to produce a second phase-shift modulated signal including a second constant phase shift and a second time-variable phase shift of 180 peak deviation operable in a descending phase direction.

30. The computer program of claim 24, wherein the third routine comprises a routine that directs the processor to transmit the first phase-shift modulated signal via a main antenna.

31. The computer program of claim 23, wherein the fourth routine comprises a routine that directs the processor to transmit the second phase-shift modulated signal via a diversity antenna.

32. The computer program of claim 24 further comprising a fifth routine, the fifth routine comprising a routine that directs to processor to combine a first input signal and a second input signal to produce a composite signal and a routine that directs the processor to generate the first signal and the second signal based on the composite signal, wherein the first signal is based on a first carrier and the second signal is based on a second carrier.

33. The computer program of claim 24, wherein the computer program operates in accordance with a code division multiple access (CDMA) based communication protocol.

34. The computer program of claim 24, wherein the medium comprises one of paper, a programmable gate array, application specific integrated circuit, erasable programmable read only memory, read only memory, random access memory, magnetic media, and optical media.